

*Application des Imaginaires au Calcul Vectoriel.* By J. B. Pomey. Paris, Gauthier-Villars, 1933. vi+70 pp.

The subtitle is "Complément à la Conférence sur le Calcul Vectoriel." This course, given at the École Supérieure d'Électricité, deals in part with the use of complex numbers in vector analysis. The book under review furnishes material for this part of the course. The author gives various applications of complex numbers to geometry, kinematics, alternating currents, elliptic vibrations, and the method of symmetric coordinates of Fortescue. There is also a discussion of Cayley's formula, which sets up a correspondence between the bilinear transformation of the complex plane and the rotation of a sphere about a diameter. The book is carefully written and the treatment in several places is somewhat unusual. It makes stimulating reading for the mathematician and gives some notion of the kind of mathematics used in electrical engineering.

C. A. SHOOK